

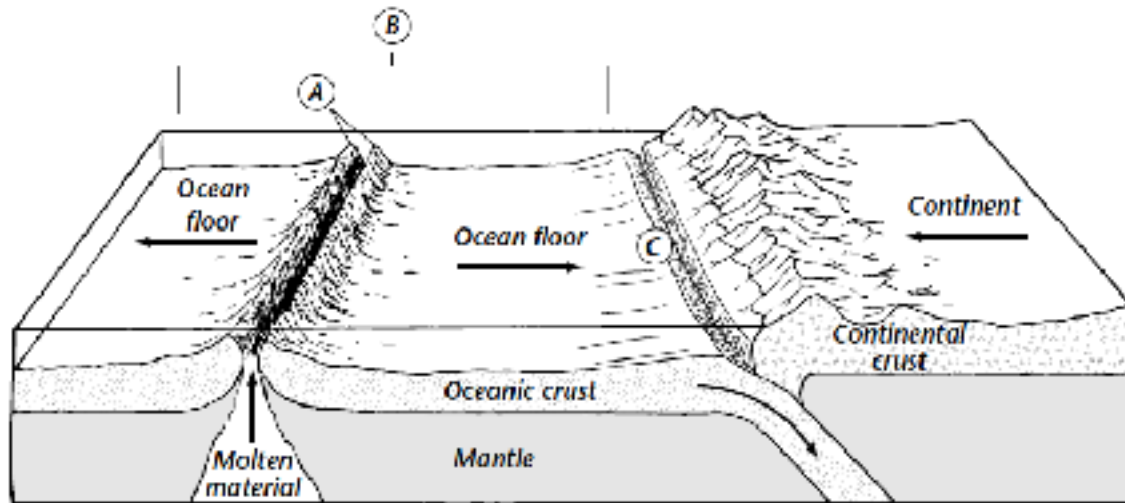
## Sea-Floor Spreading Performance Task

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Score: \_\_\_\_\_

### Part 1: Sea-Floor Spreading



1. Name and describe the feature of the ocean floor shown at A.
2. Describe the process shown occurring at B, and explain what results from this.
3. What happens to old oceanic crust as new molten material rises from the mantle?
4. What process is shown occurring at C, and why does it occur?

## Part 2: Magnetic Fields

The teacher will guide you through creating a magnetic field view with magnets and iron filaments.

1. Draw the observation you see as you place the magnet under the iron filaments.
2. Describe what is happening to the iron and the particles in the iron from the magnet.

### Activity #2: Build a compass

1. Try to pick up a staple using a needle. Does it work?
2. Stroke the needle with a strong magnet 30 times in the same direction. Now try to pick up the staples. What happens?
3. Stick the needle into a piece of Styrofoam.
4. Carefully float it in a cup of water. Compare it to the compass. What direction does it point?
5. If it doesn't work, try stroking the needle again with the magnet.